Program Release Information
CSES ID-No.DLBT1001576EN00
bizhub C652/C552/C452
MFP firmware Ver.GCT-90
Subject: Total Counter email communication does not function, and 6 fixed.

2010/06/08

1. Release version and download file name
The newly released program version and download file name is as follows.

[Release version]
<C652/C552/C452 MFP Controller firmware>

Model	Program Name	Current Ver.	New Ver.	Program File Name	Checksum	Note
bizhub C652/C552/C452	MFP firmware	GCP-90	GCT-90	A0P00Y0-F000-GCT-90.exe	858e	

[Download File Name]
A0P00Y0-F000-GCT-90.exe
C652_Series_PRI_DLBT1001576EN.doc

2. What changed
2.1. Release of bizhub C652/C552/C452 (Special-Program Card Ver.GCT-90)
The individual files and the checksum are as follows.

Program Name	File Name	Checksum	Note
BOOT	A0P00Y0-1E00-G00-02	9ACB	
MFP controller subset	A0P00Y0-1F00-G00-10	C112	
MFP controller	A0P00Y0-0100-GCT-90	9043	
MFP controller system	A0P00Y0-1000-GCT-90		
MFP controller print controller	A0P00Y0-3000-G00-69		
MFP controller print controller font	A0P00Y0-3F00-G00-21		
MFP controller print controller Demo Page	A0P00Y0-3E00-G00-01		
MFP controller MIO	A0P00Y0-5000-G00-15		
MFP controller PSWC	A0P00Y0-5100-G00-20		
MFP controller MIB IF	A0P00Y0-5200-G00-10		
MFP controller IPP IF	A0P00Y0-5300-G00-10		
MFP controller Outside controller IF	A0P00Y0-6100-G00-80		for Fiery
MFP controller TCP/Socket	A0P00Y0-6300-G00-20		
MFP controller OPEN API	A0P00Y0-7000-G00-12		
MFP controller operation panel	A0P00Y0-8000-GCP-90		
MFP controller PIC	A0P00Y0-8200-G00-55		
MFP controller CSRC control Body	A0P00Y0-8300-G00-02		
Scanner	A0P00Y0-0023-G00-81	97B1	
Printer	A0P00Y0-0050-G00-12	0C4E	
FAX board controller	15LA-0040-G02-12-000	B695	
Operation panel message data	A0P00Y0-8100-GCT-90-00	94DA	
ADF	A0HT0Y0-0024-G00-03	12E3	
Finisher (FS-526)	A11P0Y0-00N1-G00-27	1FEE	(C652/C552)
Finisher (FS-527)	A0HR0Y0-0071-G01-02	80A4	(C452)
Finisher (JS-504)	A0830Y0-0070-G01-00	FF84	(C452)
RU	A11P0Y0-00R1-G00-02	EEAC	
COPY PROTECT	---	4152	
Movie Data	A0P00Y0-A000-G00-04		
Dictionary Data	A0ED0Y0-B000-G00-0000		

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2.2. Fixed issues.
The following issues are solved in this firmware.

1. When printing the specific PCL file from SAP, an image of page header (transparency image) is not printed correctly. You can disable the Transparency adjustment processing (Image Parameter) with the following software switch.
   Switch No. :58
   HEX Assignment 00 : "Transparency adjustment processing" is enabled (Default)
   HEX Assignment 80 : "Transparency adjustment processing" is disabled (This issue is improved.)

2. Correct the wrong Germany wordings in Box Settings of the PSWC.
   Incorrect） Drucker
   Correct） Druckeinstellung

3. Total Counter email communication does not function.

4. When printing the file from SAP/IBM Info Print, the printing result is different from HP printer's.

5. Using Active Directory with External Server, when you enter the wrong password to the MFP only once, Account is locked out even if select "3 invalid logon attempts" in Account Lockout threshold setting.

6. If an IC card is placed on CU-1 during MFP startup, the name of user No.1 registered in the MFP disappears.

7. On the MFP with Management Device2 is installed, "Failed to authentication" is always displayed if Ver.GCP-90 is installed in MFP.

3. Functional restrictions
3.1 Functional restrictions
Please refer to the PRI for "bizhub C652/C552/C452 Mass-Production Program 2nd version (Ver.54)" for details.
(DLBT0902562EN*)
* Additional memory installation is required when using the following Open API functions.
   1. Functions using web browser on MFP.
   2. Initial screen customization

   If the firmware is GC6-57 or former, the following symptom occurs.
   When upgrading to this firmware, please perform the following procedure.

   If turn ON the main switch for the first time (only first time) after upgrading this firmware, "The Arp of any IP address other than IP address that is set is sent" occurs.

   This symptom does not occur when turning ON the main switch for second times or more.

   Please follow the following procedure after upgrading the firmware.
   1. After upgrading the firmware, remove a network cable from the MFP before turning ON the main switch.
   2. Turn ON the main switch and the sub power switch.
   3. After "Ready to copy." is displayed, insert the network cable.
   4. Turn ON the main switch.

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4. How to install

4.1. How to install program

Use USB memory to install. For the details, see the Service Manual.

Conditions for USB memory which can be used for updating the firmware are as follows.

- Without security function
- Capacity 1GB to 2GB are recommend
- Compatible with to USB2.0
- Formatted in FAT32 format

4.2. How to upgrade/downgrade firmware

[Definition of terms]

1st Initial Version: This is about Initial Version of C652/C552 from ver.20 to ver.26. *except C452

1st MR(Maintenance Release) Version: This is about “Function Version1” in firmware ver.5x. (There are not enhancement functions.) “Function Version1“ has equal functions with 1st Initial Version. *except C452

1st MR2(Maintenance Release2) Version: This is about “Function Version1” in firmware ver.8x/9x. (There are not enhancement functions.) “Function Version1“ has equal functions with 1st Initial Version. *except C452

2nd Version: “This is about “Function Vesion2” in firmware ver.5x. (There are 2nd enhancement functions.)

2nd MR(Maintenance Release) Version: “This is about “Function Vesion2” in firmware ver.8x/9x. (There are 2nd enhancement functions.) “Function Version2 “ has equal functions with 2nd Version.

3rd Version: “This is about “Function Vesion3” in firmware ver.8x/9x. (There are 3rd enhancement functions.)

*After the Firmware of 3rd Version is installed, the Function Version (1,2,3) is switched with software SW.

About Software Switch Settings

Switch No.: 25
HEX Assignment: 20 -> Function Version3
HEX Assignment: 10 -> Function Version2
HEX Assignment: 00 -> Function Version1 *except C452

4.2.1. Upgrade

4.2.1-1. Firmware upgrading procedure from 1st Initial Version/1st MR Version to 3rd Version “Function Version3”. *except C452

1. Install the Firmware of 3rd Version to MFP. For details, please refer to the Service Manual.
2. If 1st ver./2nd ver. movie data has been already installed, delete it in Service Mode.
3. Install 3rd ver. movie data to MFP.
4. Change Software Switch Setting to the following in Service Mode.
   Switch No.: 25
   HEX Assignment: 20
5. Turn OFF/ON the main switch.
6. Install OCR Dictionary data for Searchable PDF to MFP.
   If you use the Searchable PDF, the following options are needed.
   - LK-105
   - UK-203

4.2.1-2. Firmware upgrading procedure from 2nd Version to 3rd Version “Function Version3”.

1. Install the Firmware of 3rd Version to MFP. For details, please refer to the Service Manual.
2. If 2nd ver. movie data has been already installed, delete it in Service Mode.
3. Install 3rd ver. movie data to MFP.
4. Change Software Switch Setting to the following in Service Mode.
   Switch No.: 25
   HEX Assignment: 20
5. Turn OFF/ON the main switch.

4.2.1-3. Firmware upgrading procedure from 2nd Version to 2nd MR version “Function Version2”.

1. Install the Firmware of 3rd Version to MFP. For details, please refer to the Service Manual.
2. If 2nd ver. movie data has been already installed, delete it in Service Mode.
3. Install 3rd ver. movie data to MFP.

Important Notice:
(1) Even when using “Function Version2”, please make sure to install 3rd ver. movie data to MFP.
(2) About Software Switch Settings
Switch No.: 25
HEX Assignment: 20 -> Function Version3
HEX Assignment: 10 -> Function Version2
HEX Assignment: 00 -> Function Version1 *except C452

4.2.1-4. Firmware upgrading procedure from 1st Initial Version/1st MR Version to 1st MR2 version “Function Version1”. *except C452

1. Install the Firmware of 3rd Version to MFP. For details, please refer to the Service Manual.
2. If 1st ver./2nd ver. movie data has been already installed, delete it in Service Mode.
3. Install 3rd ver. movie data to MFP.

Important Notice:
(1) Even when using “Function Version1”, please make sure to install 3rd ver. movie data to MFP.
(2) About Software Switch Settings
Switch No.: 25
HEX Assignment: 20 -> Function Version3
HEX Assignment: 10 -> Function Version2
HEX Assignment: 00 -> Function Version1 *except C452

Regarding to Firmware upgrading procedure from 1st Initial Version to 2nd Version “Function Version2” and Firmware upgrading procedure from 1st Initial Version to 1st MR version “Function Version1”, please refer to the PRI for “bizhub C652/C552/C452 Mass-Production Program 2nd version (Ver.54)” for details. (DLBT0902562EN*)

4.2.2. Downgrade

4.2.2-1. Firmware downgrading procedure from 3rd Version “Function Version3” to 2nd MR version “Function Version2”.

1. Change Software Switch Setting to the following in Service Mode.
Switch No.: 25
HEX Assignment: 10
2. Turn OFF/ON the main switch.

Attention: You can not use some 3rd enhancement functions. (refer to *3)

4.2.2-2. Firmware downgrading procedure from 3rd Version “Function Version3” to 1st MR2 version “Function Version1”. *except C452

1. Set the number of documents in the Memory RX User Box to 200 or fewer.
Attention: In 2nd Version “Function Version2”, the number of documents where the compulsory memory RX user box can be saved has been enhanced from 200 to 500.
If you downgrade the version without setting the number of documents to 200 or fewer, it is impossible to perform Memory RX.
2. If “E-mail Address” has been set to the Destination of IP Address FAX, change the Destination to “IP Address”.
Attention: In 2nd Version “Function Version2”, it is possible to set the Destination of IP Address Fax to “E-mail Address”.
3. Delete OCR Dictionary data for Searchable PDF in Service Mode.
4. Change Software Switch Setting to the following in Service Mode.
Switch No.: 25
HEX Assignment: 00
5. Turn OFF/ON the main switch.
Attention: Some setting values in Service Mode and Administrator Mode are reset to the factory default. (refer to *1)
Attention: You can not use some 3rd enhancement functions. (refer to *3)

4.2.2-3. Firmware downgrading procedure from 2ndMR Version “Function Version2” to 2nd Version “Function Version2”.

1. Install the Firmware of 2nd Version (ver.5x) to the MFP.
2. If 3rd ver. movie data has been installed, delete it in Service Mode.
3. Install 2nd ver. movie data to the MFP.

4.2.2-4. Firmware downgrading procedure from 2ndMR Version “Function Version2” to 1st MR2 version “Function Version1”. *except C452

1. Set the number of documents in the Memory RX User Box to 200 or fewer.
   Attention: In 2nd Version “Function Version2”, the number of documents where the compulsory memory RX user box can be saved has been enhanced from 200 to 500.
   If you downgrade the version without setting the number of documents to 200 or fewer, it is impossible to perform Memory RX.
2. If “E-mail Address” has been set to the Destination of IP Address FAX, change the Destination to “IP Address”.
   Attention: In 2nd Version “Function Version2”, it is possible to set the Destination of IP Address Fax to “E-mail Address”.
3. Delete OCR Dictionary data for Searchable PDF in Service Mode.
4. Change Software Switch Setting to the following in Service Mode.
   Switch No.: 25
   HEX Assignment: 00
5. Turn OFF/ON the main switch.

Attention: Some setting values in Service Mode and Administrator Mode are reset to the factory default. (refer to *1)

4.2.2-5. Firmware downgrading procedure from 1st MR2 version “Function Version1” to 1st MR version “Function Version1”. *except C452

1. Install the Firmware of 1st MR version (ver.5x) to the MFP.
2. If 3rd ver. movie data has been installed, delete it in Service Mode.
3. Install 2nd ver. movie data to the MFP.

Regarding to Firmware downgrading procedure from 2nd Version “Function Version2” to 1st Initial Version and Firmware downgrading procedure from 2nd Version “Function Version2” to 1st MR version “Function Version1”, please refer to the PRI for “bizhub C652/C552/C452 Mass-Production Program 2nd version (Ver.54)” for details. (DLBT0902562EN*)

*1: Settings that are reset to the factory default.

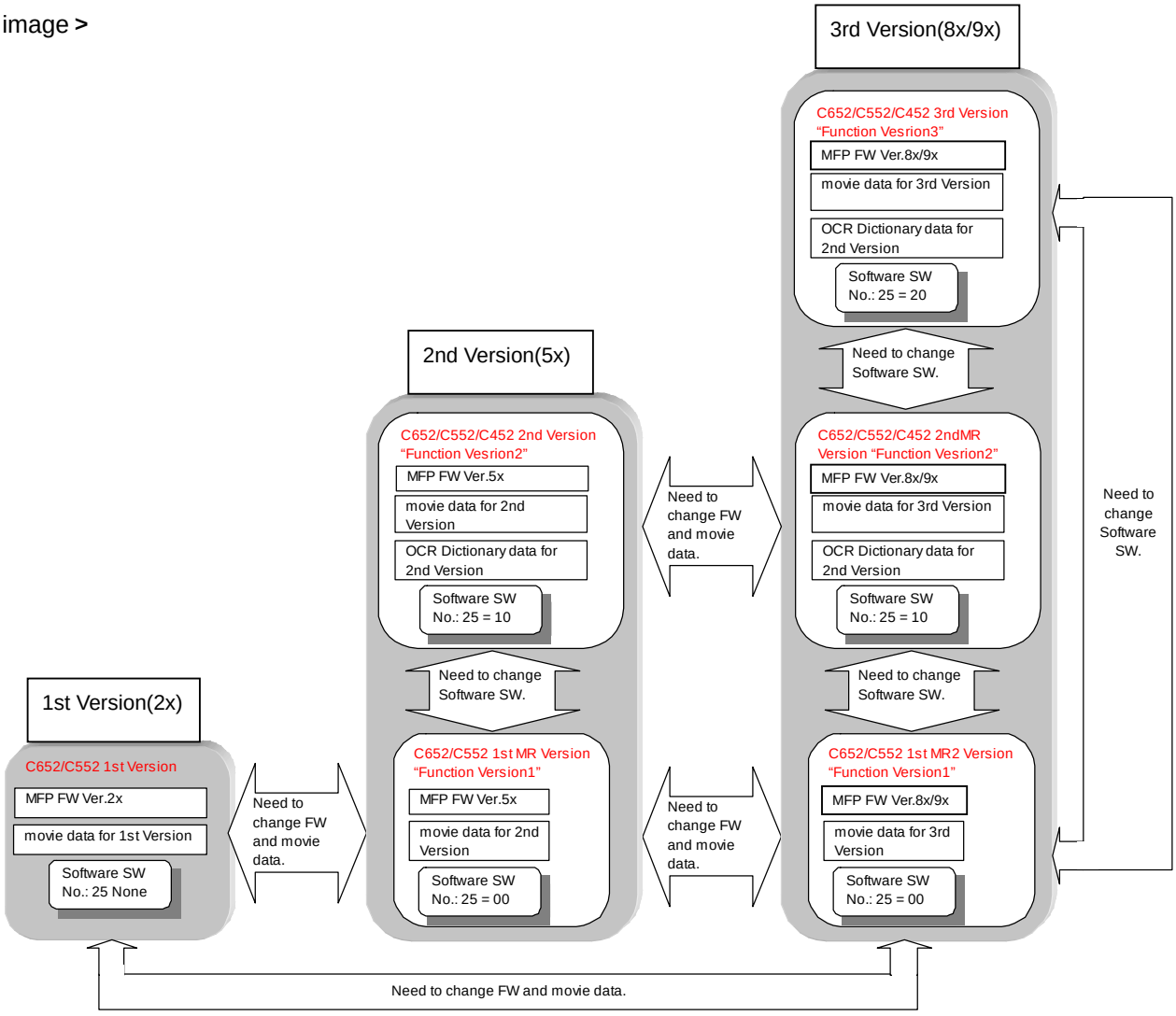
Settings		set value
Service Mode> Finisher> Punch option setting	Punch Kit Punch Unit	Nondisplay
Utility/Counter> User Settings> Custom Display Settings> Copier Settings	Shortcut key1 Shortcut key2	OFF
	Quick Settings1 Quick Settings2 Quick Settings3 Quick Settings4	These functions are not available.
Utility/Counter> User Settings> Custom Display Settings> User Box Settings	Shortcut key1 Shortcut key2	OFF
Utility/Counter> Administrator Settings> System Settings> Output Settings> >Output Tray Settings	Copy Print Print Reports Fax	Tray2 Tray2 Tray1 Tray1
Utility/Counter> Administrator Settings> System Connection> >Prefix/Suffix Automatic Setting	Prefix/Suffix Auto Settings	This function is not available.
Utility/Counter> Administrator Settings> User Authentication/Account Track> >General Settings> User Authentication> Job Setting> ON (MFP)	Public User Access	Restrict <on condition*2>
Utility/Counter> Administrator Settings> System Settings> Restrict User Access> >Restrict Access to Job Settings> Changing the “From” Address	Changing the “From” Address	Allow

*2: This setting is reset to “Restrict” only when “Synchronize User Authentication & Account Track is set to “Do Not synchronize”.

*3: If downgrading from 3rd Version “Function Version3” to 1st Version “Function Version1” and 2nd Version “Function Version2”, you can not use the following functions.

- Administrator Settings>Printer Settings>Assign Account to Acquire Device Info
- Administrator Settings>Security Settings>Security Details>Manual Input>
  ”Allow All” / ”Individual Allowance”(Fax/SIP Fax)/ ”Restrict”
  *This setting is reset to ”Restrict” if you select ”Individual Allowance”.
- Administrator Settings>User Authentication/Account Track>User Authentication Settings>User Registration>Edit>
  Function Permission>Manual Destination>Allow>”Allow All” / ”Individual Allowance”(Fax/SIP Fax)
  *This setting is reset to ”Restrict” if you select ”Individual Allowance”.
- Administrator Settings>User Authentication/Account Track>User Authentication Settings>User Registration>Edit>Pause
- Administrator Settings>User Authentication/Account Track> Account Track Settings> Account Track Registration>Edit>Pause
- User Settings>Custom Display Settings>Copier Settings>Default Tab Density Settings
- User Settings>Copier Settings>Half-Fold/Tri-Fold Specification

< image >


3rd Version(8x/9x)
C652/C552/C452 3rd Version “Function Vesrion3”
MFP FW Ver.8x/9x
movie data for 3rd Version
OCR Dictionary data for 2nd Version
Software SW No.: 25 = 20
Need to change Software SW.
2nd Version(5x)
C652/C552/C452 2nd Version “Function Vesrion2”
MFP FW Ver.5x
movie data for 2nd Version
OCR Dictionary data for 2nd Version
Software SW No.: 25 = 10
Need to change FW and movie data.
C652/C552/C452 2ndMR Version “Function Vesrion2”
MFP FW Ver.8x/9x
movie data for 3rd Version
OCR Dictionary data for 2nd Version
Software SW No.: 25 = 10
Need to change Software SW.
Need to change Software SW.
1st Version(2x)
C652/C552 1st Version
MFP FW Ver.2x
movie data for 1st Version
Software SW No.: 25 None
Need to change FW and movie data.
C652/C552 1st MR Version “Function Version1”
MFP FW Ver.5x
movie data for 2nd Version
Software SW No.: 25 = 00
Need to change FW and movie data.
C652/C552 1st MR2 Version “Function Version1”
MFP FW Ver.8x/9x
movie data for 3rd Version
Software SW No.: 25 = 00
Need to change FW and movie data.

4.3. How to check version

[ROM version]:

You can check the ROM version in service mode, "Firmware Version"

For the details, see the Service Manual.

4.4. How to install movie data

Use USB memory to install.

For the details, see the Service Manual.

4.5. How to install Loadable Device Driver

1. Extract the attached exe file and save “A0P0FW.tar” file to root directory of USB memory.
2. Insert the USB memory to FW installation USB port of MFP.
3. Turn ON the main switch.
4. Version of Loadable Device Driver is displayed on the MFP panel. Press “START” button.
5. When the driver installation is complete, Checksum is displayed on the MFP panel.
6. Turn OFF/ON the main switch.
7. Select “Authentication Device2” and “Card2” in Service Mode> Billing Setting> Management Function Choice. Press “OK” button.
8. Turn ON/OFF the main switch.
9. Select appropriate card type in Administrator Settings> User Authentication/Account Track> Authentication Device Settings.

4.6. Function Version of Printer Driver

1. when using the driver as 3rd(Function Version3) Printer Driver
   Select “Version3” in Properties of Printer Driver> Configure> Function Version.
2. when using the driver as 2nd(Function Version2) Printer Driver
   Select “Version2” in Properties of Printer Driver> Configure> Function Version.
3. when using the driver as 1st(Function Version1) Printer Driver
   Select “Version1” in Properties of Printer Driver> Configure> Function Version. *except C452

* If “Auto” of Acquire Settings is on, Function Version of MFP is applied to the Printer Driver automatically.

5. Program that recommends applying at the same time

Please refer to the PRI for “bizhub C652/C552/C452 Mass-Production Program 3rd version (Ver.88)” for details.
(DLBT1000126EN*)

6. OpenAPI supported function level

The following is OpenAPI supported function level on this firmware.

OpenAPI:

OpenAPI Function Level	3.5B

Detail:

Auth		1.0/1.1/2.0/2.1/2.5/3.5
Scan to Application		2.0/2.1/2.2/3.0/3.1/3.5
PullPrint		1.0/1.1/2.0/2.1/2.5/3.5
Other A		1.0/3.5
Job Management		1.0/3.5
Setup		1.0/1.1/1.2/1.3/2.0/2.1/2.5/3.5
Web Browser	Auth	1.0/1.1/1.5/3.5
	Scan to Application	1.0/1.1/3.5
	PullPrint	1.0/1.1/1.5/3.5
	ScrSvr	1.0/3.5
	Launcher	1.0/3.5

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